JAN 15 2004
PATENT & TRADEMARK OFFICE

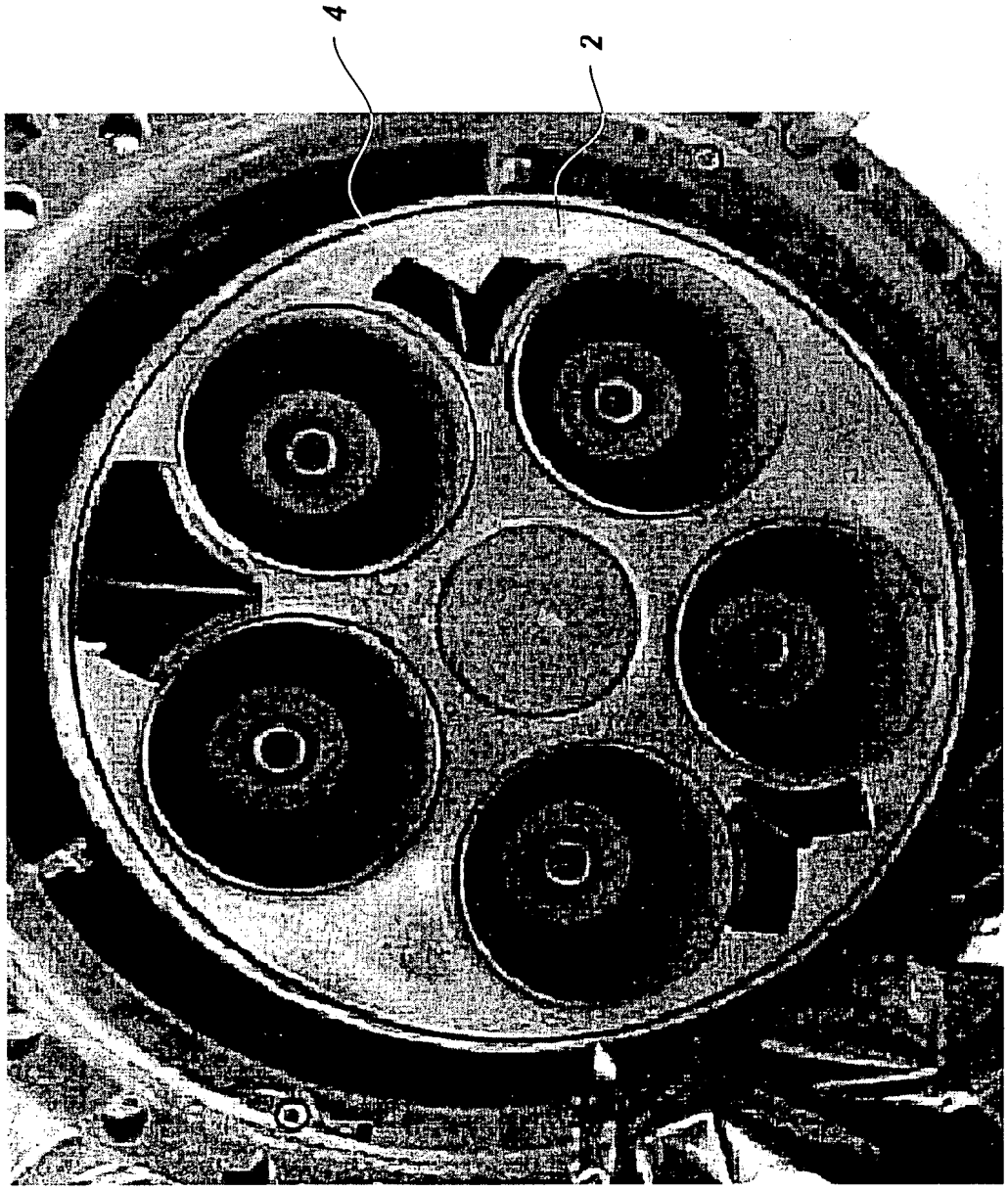


Fig. 1

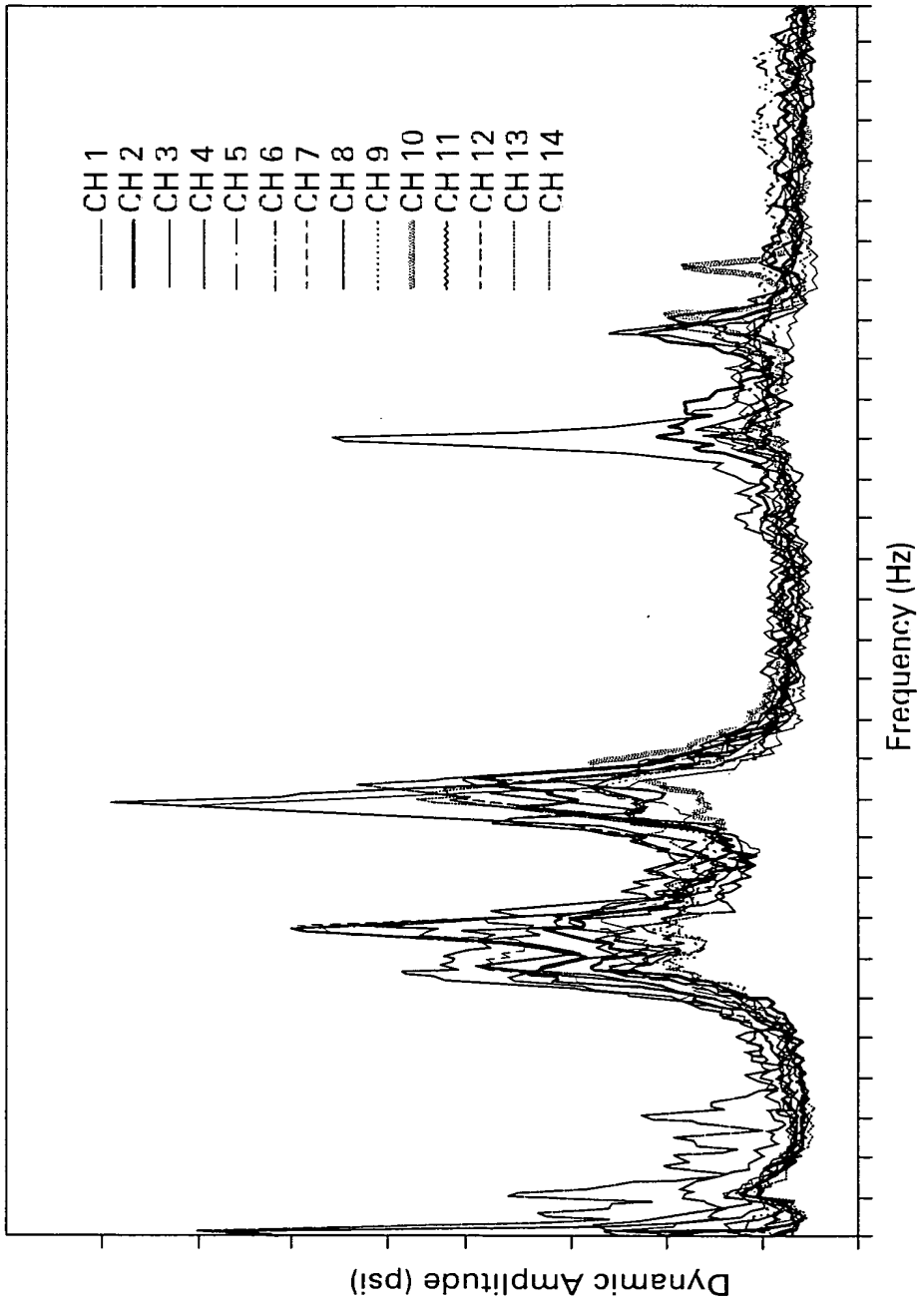

CH 1
CH 2
CH 3
CH 4
CH 5
CH 6
CH 7
CH 8
CH 9
CH 10
CH 11
CH 12
CH 13
CH 14
Dynamic Amplitude (psi)
Frequency (Hz)

Fig. 2

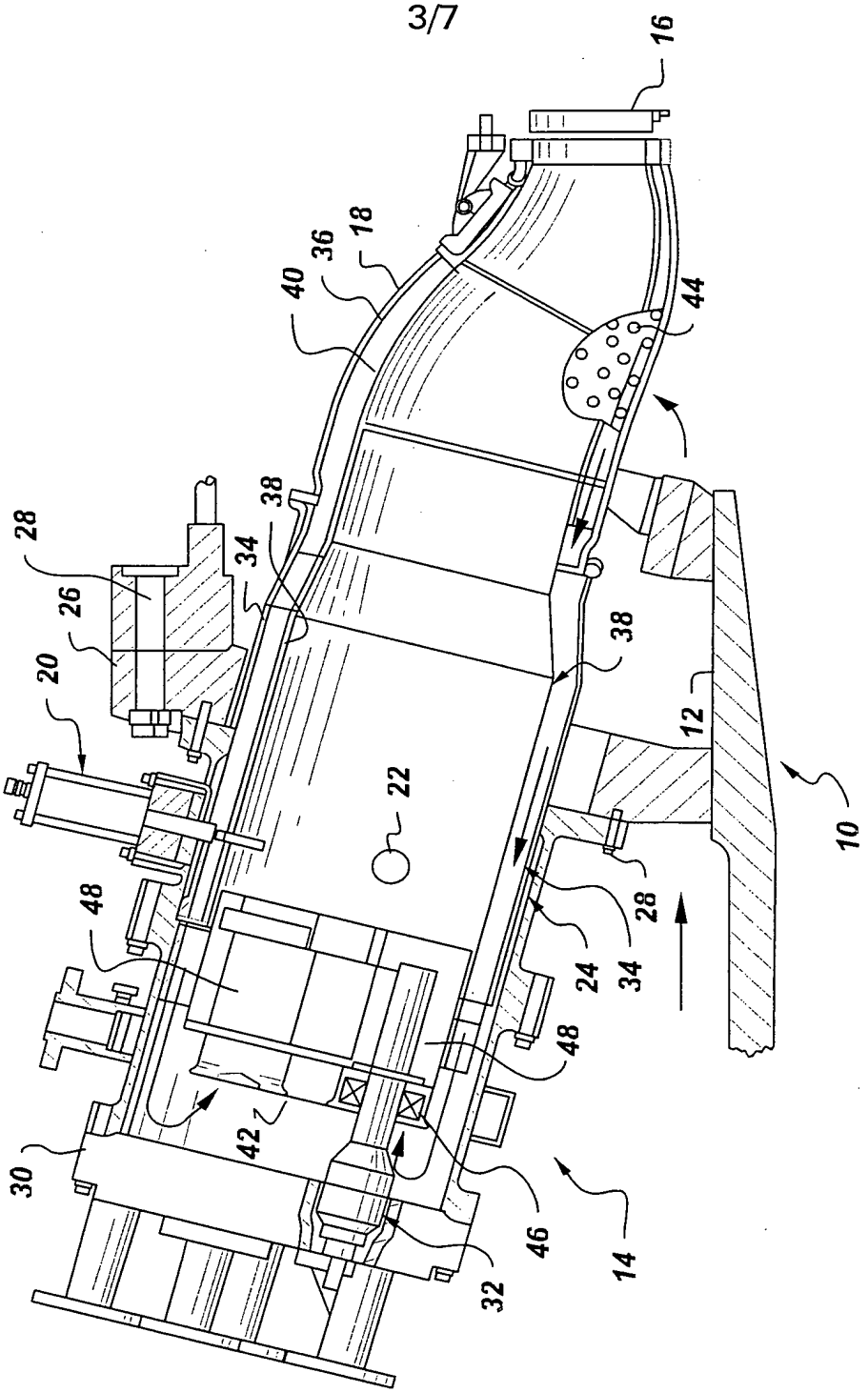


Fig. 3

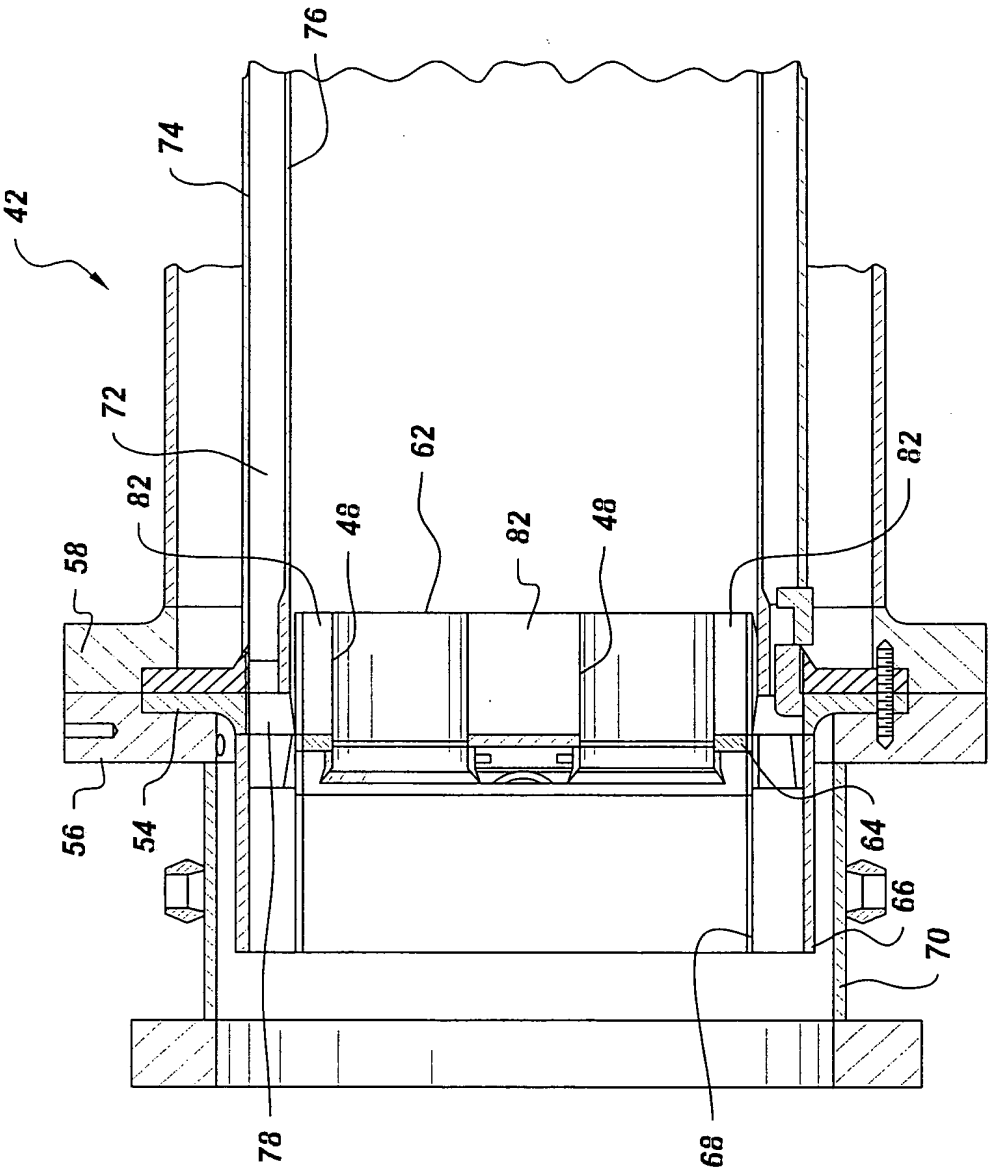


Fig. 4

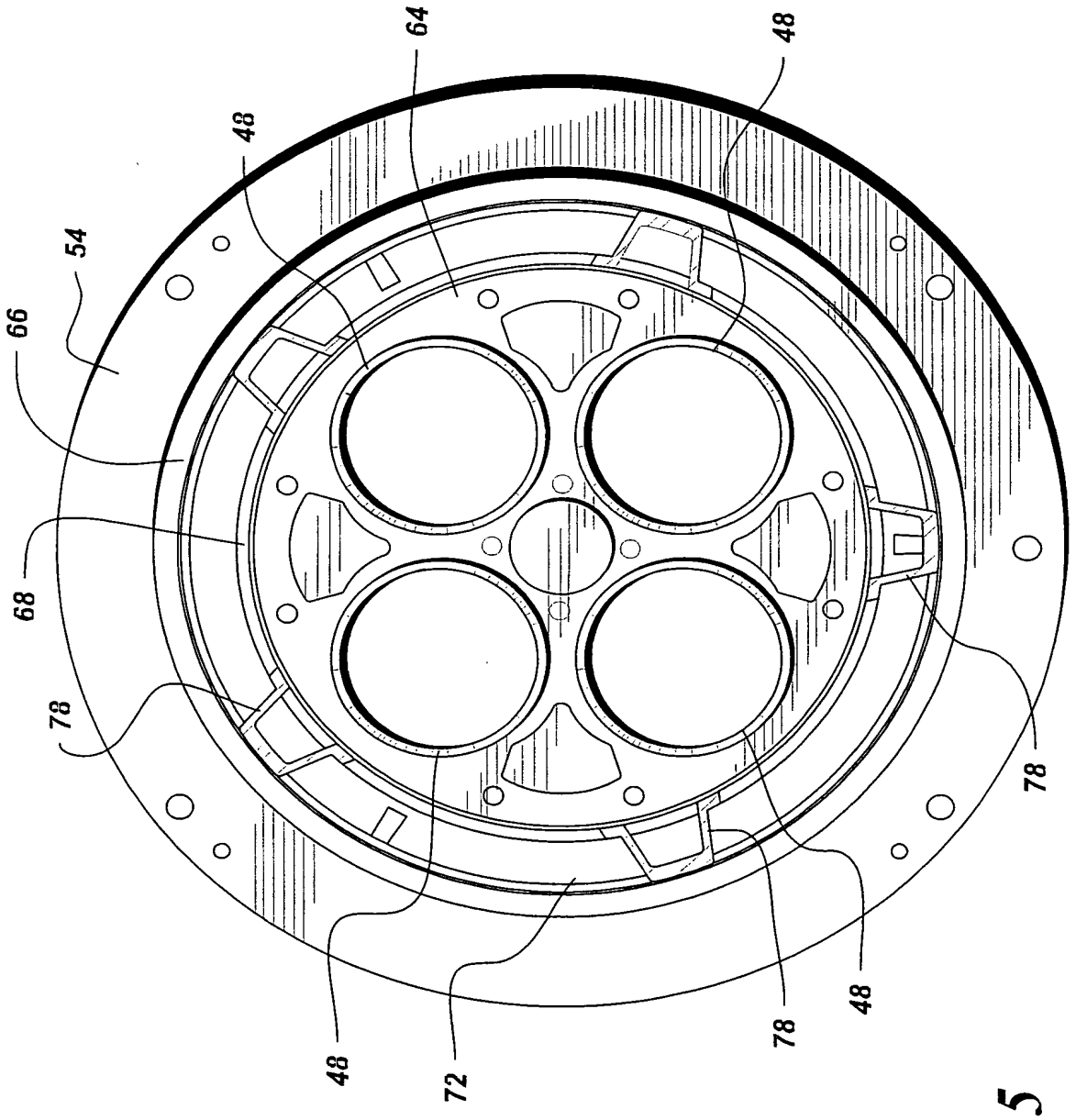
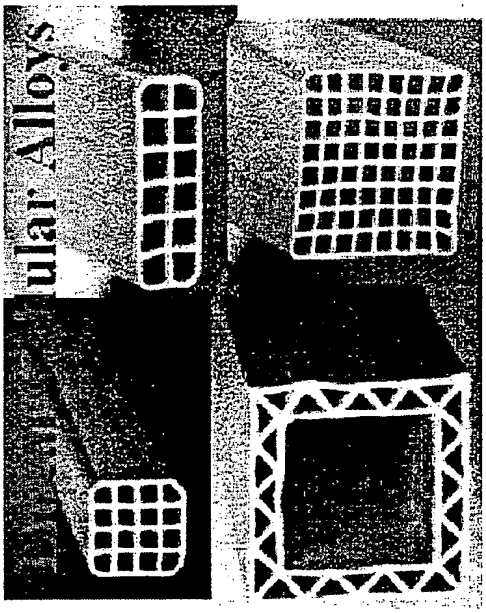
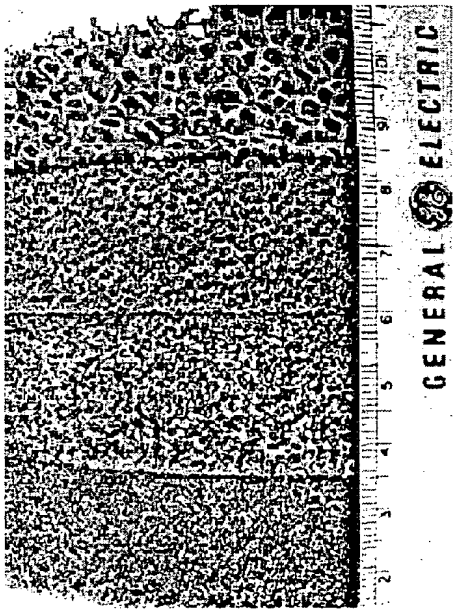
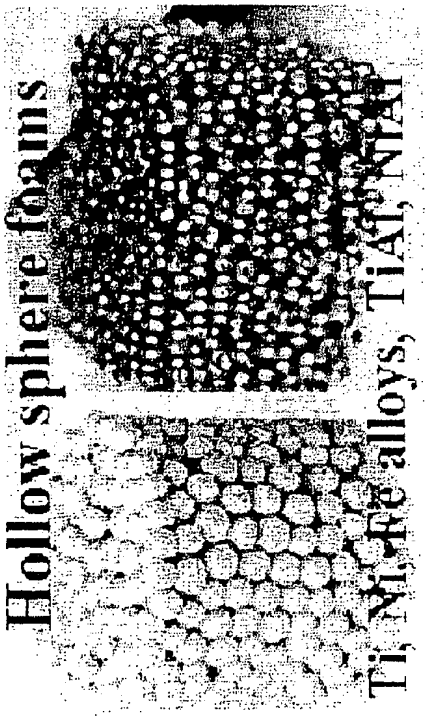


Fig. 5


ular Alloys


GENERAL ELECTRIC


Hollow sphere foams
Ti, Ni, Fe alloys, TiAl, NiAl

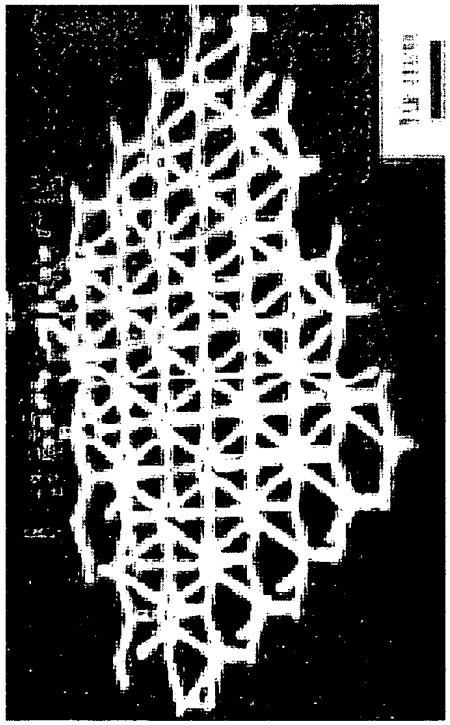


Fig. 6

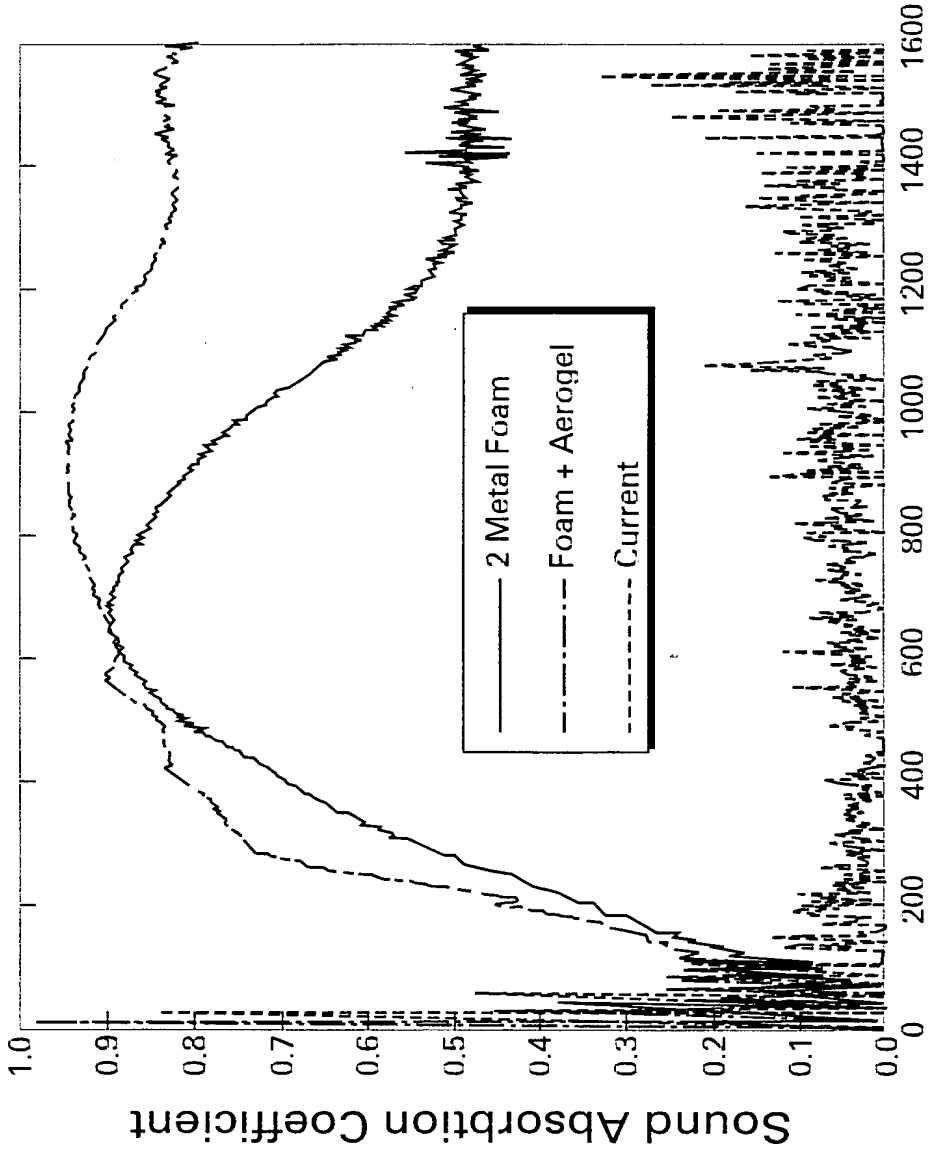

Sound Absorption Coefficient
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
200
400
600
800
1000
1200
1400
1600
Frequency (Hz)
2 Metal Foam
Foam + Aerogel
Current

Fig. 7